



PEC (multi-coloured) Recycled Polyester geotextile fabrics

Physical Properties	test method	unit														Tolerance		
Weight		g/m²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500	±	10%	
Thickness	EN ISO 9863-1	mm	1.00	1.20	1.40	1.60	1.80	2.00	2.30	2.60	2.90	3.30	4.00	4.50	6.40	±	20%	
Mechanical Properties																		
Tensile Strength	md	EN ISO 10319	kN/m	0.8	1.6	2.0	2.4	2.8	3.2	4.0	5.4	6.7	8.0	10.0	12.0	15.0	-	10%
	cmd	EN ISO 10319	kN/m	0.8	1.6	2.1	2.5	3.0	3.4	5.0	7.4	9.0	10.5	13.5	15.0	20.0	-	10%
Elongation at max load	md	EN ISO 10319	%	40	50	50	50	50	50	60	60	70	70	80	80	90	±	30%
	cmd	EN ISO 10319	%	50	60	60	60	60	60	60	60	70	70	80	80	90	±	30%
Energy index	EN ISO 10318	kJ/m ²	0.3	0.4	0.6	0.7	0.8	0.9	1.4	1.9	2.7	3.2	4.7	5.4	7.9	±	20%	
Static puncture resistance	EN ISO 12236	kN	0.1	0.3	0.4	0.5	0.6	0.8	1.2	1.8	2.2	2.6	4.2	5.0	6.0	-	10%	
Dynamic puncture resistance (cone drop test)	EN ISO 13433	mm	>50	46	40	36	32	24	14	10	8	6	2	2	0	+	20%	
Pyramid puncture resistance	EN 14574	N	n/a	200	300	400	450	500	600	800	950	1100	1500	1700	2000	-	20%	
Hydraulic properties																		
Permeability normal to the plane	EN ISO 11058	mm/s	90	90	70	60	60	50	30	30	25	20	10	10	10	-	30%	
In-plane flow capacity	EN ISO 12958	10 ⁻³ l/ms	2	2	2	3	3	3.2	5	7	7	8	9	9	9	-	30%	
Opening size	EN ISO 12956	µm	65	60	55	55	55	45	45	35	35	35	30	30	20	±	30%	
Durability properties																		
Weathering resistance	EN 12224	Passes EN 12224 weathering test. It is highly recommended that the geotextile is covered within 15 days from the day of installation. The material can be exposed to sunlight with a degradation of the mechanical properties depending on season.																
		Made from multicoloured polyester recycled fibre. Specific weight of polymer is 0.38 kg/dm ³ . Raw material is staple fibres, produced through needlepunching and calendering. The material is produced according the quality management system of EN ISO 9001:2008. It fulfills the requirement of European regulations related to construction products as per 1213-CPR 3269.																
Oxydation resistance	EN ISO 13438	Forecast minimum durability of 5 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C																

The values given are an average obtained in our laboratories and in official testing insitutes

The confidence level is 95%

We reserve the right to make changes at any time without notice



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Notified body



1213-CPD-3269



PEI Recycled Polyester geotextile - nonwoven polyester fabric

Physical Properties	test method	unit														Tolerance		
Weight		g/m ²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500	±	10%	
Thickness	EN ISO 9863-1	mm	0.90	1.10	1.30	1.60	1.75	1.90	2.20	2.80	3.00	3.50	4.00	4.50	6.00	±	20%	
Mechanical Properties																		
Tensile Strength	md	EN ISO 10319	kN/m	1.2	1.8	2.0	2.5	2.8	3.2	4.2	5.5	6.0	6.5	7.5	13.0	20.0	-	10%
	cmd	EN ISO 10319	kN/m	1.2	1.8	2.0	2.7	3.2	4.0	5.2	7.5	8.0	9.0	10.5	16.0	25.0	-	10%
Elongation at max load	md	EN ISO 10319	%	50	50	50	50	50	50	60	70	70	80	80	80	80	±	30%
	cmd	EN ISO 10319	%	60	60	60	60	60	60	70	80	80	90	90	90	90	±	30%
Energy index	EN ISO 10318		kJ/m ²	0.3	0.5	0.6	0.7	0.8	1.0	1.5	2.4	2.6	3.3	3.8	6.2	9.6	±	20%
Static puncture resistance	EN ISO 12236		kN	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.2	1.4	1.8	2.2	2.8	4.0	-	10%
Dynamic puncture resistance (cone drop test)	EN ISO 13433		mm	>50	>50	45	40	30	20	16	6	2	2	0	0	0	+	20%
Pyramid puncture resistance	EN 14574		N	n/a	n/a	n/a	100	150	180	200	250	270	300	500	700	800	-	20%
Hydraulic properties																		
Permeability normal to the plane	EN ISO 11058		mm/s	110	100	80	60	50	40	30	25	25	20	20	20	20	-	30%
In-plane flow capacity	EN ISO 12958		10 ⁻³ l/ms	1.6	2.1	2.3	2.7	3.0	3.2	5.0	7.0	7.0	8.0	9.0	9.0	9.0	-	30%
Opening size	EN ISO 12956		µm	65	60	55	55	55	45	45	35	35	35	30	30	30	±	30%
Durability properties																		
Weathering resistance	EN 12224	Passes EN 12224. It is highly recommended that the geotextile is covered within 15 days from the day of installation. The material can be exposed to sunlight for a maximum of 4 months with a degradation of the mechanical properties depending on season.																
Oxydation resistance	EN ISO 13438	Made from polyester white fibre. Specific weight of polymer is 0.38 kg/dm ³ . Raw material is staple fibres, produced through needlepunching and calandring. The material is produced according the quality management system of EN ISO 9001:2008. It fulfills the requirement of European regulations related to construction products as per 1213-CPR 3269. Forecast minimum durability of 5 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C																

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1213-CPD-3269



PPEXT Polypropylene - nonwoven virgin fibre - second strength geotextile fabric

Physical Properties		test method	unit	100	120	150	200	250	300	400	500	600	800	1000	1200	1500	Tolerance	
Weight			g/m ²	100	120	150	200	250	300	400	500	600	800	1000	1200	1500	±	10%
Thickness		EN ISO 9863-1	mm	0.7	0.8	1.00	1.30	1.60	1.80	2.50	3.30	3.60	4.40	5.50	7.00	8.50	±	20%
Mechanical Properties																		
Tensile Strength	md	EN ISO 10319	kN/m	2.0	2.7	3.5	4.5	6.0	9.0	10.0	12.0	18.0	24.0	30.0	35.0	40.0	-	15%
	cmd	EN ISO 10319	kN/m	2.5	3.2	4.0	5.5	8.0	11.0	14.0	18.0	22.0	32.0	40.0	45.0	50.0	-	15%
Elongation at max load	md	EN ISO 10319	%	70	70	70	70	80	80	80	80	80	90	90	95	95	±	25%
	cmd	EN ISO 10319	%	80	80	80	80	85	85	85	90	90	95	100	100	100	±	25%
Energy index		EN ISO 10318	kJ/m ²	0.8	1.1	1.4	1.9	2.9	4.1	5.0	6.4	8.5	13.3	16.6	19.5	21.9	±	25%
Static puncture resistance		EN ISO 12236	kN	0.4	0.5	0.9	0.9	1.3	1.5	1.8	2.5	3.6	4.8	6.0	8.0	10.0	-	10%
Dynamic puncture resistance (cone drop test)		EN ISO 13433	mm	>50	>50	36	28	22	18	14	10	6	2	1	0	0	+	25%
Pyramid puncture resistance		EN 14574	N	n/a	n/a	n/a	150	200	300	340	400	500	700	1100	1400	1600	-	20%
Hydraulic properties																		
Permeability normal to the plane		EN ISO 11058	mm/s	110	100	80	70	50	35	25	20	20	20	20	20	20	-	30%
In-plane flow capacity		EN ISO 12958	10 ⁻³ l/ms	0.6	0.8	1.2	1.8	2.0	2.2	2.6	3.5	4.5	5.3	6.0	6.3	7.0	-	30%
Durability properties																		
Weathering resistance		EN 12224	Passes EN 12224 weathering test. It is highly recommended that the geotextile is covered within 15 days from the day of installation. The material can be exposed to sunlight with a degradation of the mechanical properties depending on season.															
Product Composition			Made from polypropylene virgin fibre. Specific weight of polymer is 0.91 kg/dm ³ . Raw material is staple fibres, produced through needlepunching and calendering. Melting point is 165-175 °C. The material is produced according the quality management system of EN ISO 9001:2008. It fulfills the requirement of European regulations related to construction products as per 1213-CPR 3269.															
Oxydation resistance		EN ISO 13438	Forecast minimum durability of 5 years for all non-reinforcement application in natural grounds with 4<pH<9 and soil temperature <25°C															

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PPS Polypropylene geotextile - high tenacity nonwoven virgin fibre fabric

Physical Properties	test method	unit																									Tolerance				
Weight / mass per unit area	EN ISO 9864	g/m ²	70	90	100	110	120	130	150	180	200	230	250	280	300	320	350	380	400	450	500	600	700	800	1000	1200	1500	2000	±	10%	
Thickness	EN ISO 9863-1	mm	0.4	0.60	0.65	0.70	0.80	0.90	1.00	1.20	1.30	1.40	1.50	1.55	1.60	1.65	1.80	2.20	2.50	2.65	3.00	4.00	5.00	5.50	6.50	7.00	7.50	7.50	±	20%	
Mechanical Properties																															
Tensile Strength	md	EN ISO 10319	kN/m	3.2	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	23.0	25.0	25.0	27.0	28.0	30.0	32.0	35.0	40.0	45.0	50.0	60.0	70.0	85.0	75.0	-	10%
	cmd	EN ISO 10319	kN/m	3.5	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	23.0	25.0	27.0	30.0	32.0	34.0	36.0	40.0	50.0	65.0	80.0	90.0	105.0	140.0	155.0	-	10%
Elongation at max load	md	EN ISO 10319	%	55	55	55	55	55	55	60	60	65	65	65	65	70	70	70	70	80	80	80	80	80	80	80	80	80	80	±	30%
	cmd	EN ISO 10319	%	60	60	60	60	60	60	60	65	65	70	70	70	70	70	70	70	80	80	80	80	80	80	80	80	80	80	±	30%
Energy index	EN ISO 10318	kJ/m ²	1.0	1.7	2.0	2.3	2.6	2.9	3.5	4.4	5.0	6.1	6.8	7.8	8.4	9.1	10.0	10.5	11.2	13.6	15.0	18.0	22.0	26.0	30.0	35.0	45.0	46.0	±	20%	
Static puncture resistance	EN ISO 12236	kN	0.7	0.9	1.2	1.3	1.5	1.7	1.9	2.2	2.4	2.7	3.0	3.5	4.0	4.2	4.5	5.0	5.5	6.0	6.5	8.0	9.0	10.0	13.0	14.0	18.0	20.0	-	10%	
Dynamic puncture resistance (cone drop test)	EN ISO 13433	mm	>50	44	38	34	32	30	26	22	20	16	14	12	10	10	8	8	6	6	4	2	1	0	0	0	0	0	+	20%	
Pyramid puncture resistance	EN 14574	N	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	200	220	280	320	330	335	340	350	350	400	500	700	900	1000	1300	1600	2200	2200	-	20%	
Hydraulic properties																															
Permeability normal to the plane	EN ISO 11058	mm/s	130	130	125	120	115	110	100	95	90	80	75	70	65	30	50	40	35	30	30	25	20	20	15	15	15	5	-	30%	
In-plane flow capacity	EN ISO 12958	10 ⁻³ l/ms	0.8	0.80	0.80	0.80	0.80	0.80	1.60	1.60	2.10	2.10	2.30	2.30	2.50	2.50	2.70	2.80	3.20	4.00	5.00	7.80	8.00	8.50	9.00	9.00	9.00	7.00	-	30%	
Trasmissivity	EN ISO 10318	l/m s		0.80	0.80		0.80	0.80	1.60	1.60	2.10	2.10	2.30			2.50			3.20		5.00				8.50	9.00		9.00			
Opening size	EN ISO 12956	µm	120	120	120	110	110	100	90	90	80	70	60	50	50	50	50	50	50	50	50	50	50	50	40	40	40	40	±	30%	
Durability properties																															
Weathering resistance	EN 12224	Passes EN 12224 weathering test. It is highly recommended that the geotextile is covered within 30 days from the day of installation. The material can be exposed to sunlight for a maximum of 4 months with a degradation of the mechanical properties depending on season.																													
Product Composition	Made from virgin fibre polypropylene, UV stabilised. Specific weight of polymer is 0.91 kg/dm ³ . Raw material is staple fibres, produced through needlepunching and calandring. Melting point is 165-175 °C. Fibre diameter is 25-30 µm. The material is produced according the quality management system of EN ISO 9001:2008. It fulfills the requirement of European regulations related to construction products as per 1213-CPR 3269.																														
Oxydation resistance	EN ISO 13438	Forecast minimum durability of 25 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C																													

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